



DOCKET NO.: M0656.70088US01

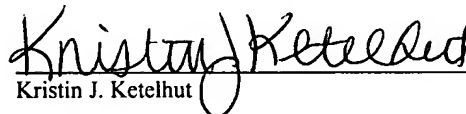
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alice Y. Ting  
Serial No.: 10/754,911  
Confirmation No.: Not Yet Assigned  
Filed: January 9, 2004  
For: METHODS AND COMPOSITIONS FOR PEPTIDE AND  
PROTEIN LABELING  
Examiner: Not Yet Assigned  
Art Unit: Not Yet Assigned

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 27 day of April, 2004.

  
Kristin J. Ketelhut

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Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:


- ☒ Information Disclosure Statement
- ☒ PTO Form 1449 with cited references
- ☒ Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 720-3500, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

*Alice Y. Ting, Applicant*



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Maria A. Trevisan, Reg. No. 48,207  
Wolf, Greenfield & Sacks, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2211  
Telephone: (617) 646-8000

Docket No. M0656.70088US01  
Date: April 27 2004  
xNDDx



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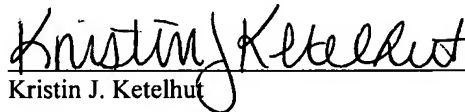
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

**PART II: Information Cited**

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The Applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Docket No.</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
M0656.70097US00	10/634,740	August 5, 2003	Alice Y. Ting

The following are remarks concerning the other information cited:

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.


By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

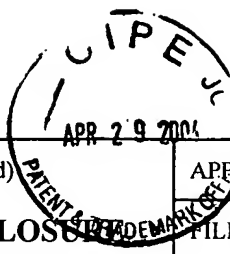
Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,  
Alice Y. Ting, *Applicant*

By:   
\_\_\_\_\_  
Maria A. Trevisan, Reg. No. 48,207  
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600 Atlantic Avenue  
Boston, Massachusetts 02210-2211  
Telephone: (617) 646-8000

Docket No. M0656.70088US01  
Date: April 27, 2004  
**XNDDX**



FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 10/754,911	ATTY. DOCKET NO.: M0656.70088US01
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		FILING DATE: January 9, 2004	CONFIRMATION NO.: Not Yet Assigned
		APPLICANT: Alice Y. Ting	
		GROUP ART UNIT: Not Yet Assigned	EXAMINER: Not Yet Assigned
Sheet	1	of	2

#### U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		5,723,584		Schatz	03-03-1998
		5,874,239		Schatz	02-23-1999
		5,932,433		Schatz	08-03-1999

#### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		BECKETT et al., "A minimal peptide substrate in biotin holoenzyme synthetase-catalyzed biotinylation", <i>Protein Sci.</i> , 8(4): 921-929, 1999. <b>ABSTRACT ONLY</b>	
		CHAPMAN-SMITH et al., "Molecular biology of biotin attachment to proteins", <i>J. Nutr.</i> , 129: 477S-484S, 1999.	
		CORNISH et al., "Site-specific protein modification using a ketone handle", <i>J. Am. Chem. Soc.</i> , 118: 8150-8151, 1996.	
		DE BOER et al., "Efficient biotinylation and single-step purification of tagged transcription factors in mammalian cells and transgenic mice", <i>PNAS</i> , 100(13): 7480-7485, 2003.	
		GAIETTA et al., "Multicolor and electron microscopic imaging of connexin trafficking", <i>Science</i> , 296: 503-507, 2002.	
		GENBANK Submission; NIH/NCBI; Accession Number M10123; April 26, 1993 (last submission).	
		GIRIAT et al., "Protein semi-synthesis in living cells", <i>J. Am. Chem. Soc.</i> , 125: 7180-7181, 2003.	
		GRIFFIN et al., "Specific covalent labeling of recombinant protein molecules inside live cells", <i>Science</i> , 281: 269-272, 1998.	
		HEINIS et al., "Selection of catalytically active biotin ligase and trypsin mutants by phage display", <i>Protein Engineering</i> , 14(12): 1043-1052, 2001.	
		IRIE et al., "A digital fluorescent molecular photoswitch", <i>Nature</i> , 420: 759-760, 2002.	
		KEPPLER et al., "A general method for the covalent labeling of fusion proteins with small molecules <i>in vivo</i> ", <i>Nature Biotechnology</i> , 21: 86-89, 2003.	
		KIICK et al., "Incorporation of azides into recombinant proteins for chemoselective modification by the Staudinger ligation", <i>PNAS</i> , 99(1): 19-24, 2002.	
		LINK et al., "Cell surface labeling of <i>Escherichia coli</i> via copper(I)-catalyzed [3+2] cycloaddition", <i>J. Am. Chem. Soc.</i> , 125: 11164-11165, 2003.	
		LOOGER et al., "Computational design of receptor and sensor proteins with novel functions", <i>Nature</i> , 423: 185- 190, 2003.	
		MAHAL et al., "Engineering chemical reactivity on cell surfaces through oligosaccharide biosynthesis", <i>Science</i> , 276: 1125-1128, 1997.	
		QUELLHORST et al., "Modification of Rab5 with a photoactivatable analog of geranylgeranyl diphosphate", <i>J. Biol. Chem.</i> , 276(44): 40727-40733, 2001.	

<b>FORM PTO-1449/A and B (Modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/754,911		ATTY. DOCKET NO.: M0656.70088US01	
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				APPLICANT: Alice Y. Ting			
				GROUP ART UNIT: Not Yet Assigned		EXAMINER: Not Yet Assigned	
Sheet	2	of	2				

		SATO et al., "Site-specific modification of interleukin-2 by the combined use of genetic engineering techniques and transglutaminase", <i>Biochemistry</i> , 35: 13072-13080, 1996.		
		SAXON et al., "Cell surface engineering by a modified Staudinger reaction", <i>Science</i> , 287: 2007-2010, 2000.		
		SCHATZ et al., "Use of peptide libraries to map the substrate specificity of a peptide-modifying enzyme: a 13 residue consensus peptide specifies biotinylation in <i>Escherichia coli</i> ", <i>Biotechnology</i> , 11(10): 1138-1143, 1993. <b>ABSTRACT ONLY</b>		
		VAN DELDEN et al., "A chiroptical molecular switch with distinct chiral and photochromic entities and its application in optical switching of a cholesteric liquid crystal", <i>Chem. Eur. J.</i> , 10: 61-70, 2004.		
		VAN DELDEN et al., "Photochemical and thermal isomerization processes of a chiral auxiliary based donor-acceptor substituted chiroptical molecular switch: convergent synthesis, improved resolution and switching properties", <i>Chem. Eur. J.</i> , 9: 2845-2853, 2003.		
		WANG et al., "Bioconjugation by copper (I)-catalyzed azide-alkyne [3+2] cycloaddition", <i>J. Am. Chem. Soc.</i> , 125: 3192-3193, 2003.		
		WEAVER et al., "Corepressor-induced organization and assembly of the biotin repressor: A model for allosteric activation of a transcriptional regulator", <i>PNAS</i> , 98(11): 6045-6050, 2001.		
		WILSON et al., " <i>Escherichia coli</i> biotin holoenzyme synthetase / bio repressor crystal structure delineates the biotin- and DNA-binding domains", <i>Proc. Natl. Acad. Sci. USA</i> , 89: 9257-9261, 1992.		
		YEO et al., "Cell-permeable small molecule probes for site-specific labeling of proteins", <i>Chem. Commun.</i> , 2870-2871, 2003.		
		ZHANG et al., "A water-soluble azobenzene cross-linker for photocontrol of peptide conformation", <i>Bioconjugate Chemistry</i> , 14: 824-829, 2003.		
		ZHANG et al., "A new strategy for the site-specific modification of proteins <i>in vivo</i> ", <i>Biochemistry</i> , 42: 6735-6746, 2003.		

EXAMINER	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]